Overview of SYBAC Meeting – 12/8/15

SYBAC Students present:
  Caleb Beerbower, Southeast Polk HS
  Brent Brain, Muscatine
  Kaylee Daniels, Oskaloosa HS
  Gabe Golberg, Mount Vernon HS
  Austin Kallemeyn, Sioux Center Community HS
  Aaron Mark, Burlington HS
  Zach Mass, Treynor Community HS
  Bryce Snell, Ballard HS
  Brookelyn Wahlert, CAM HS
  Hunter Werner, Louisa-Muscatine Jr./Sr. Schools

SYBAC Students absent:
  Stephanie Lapointe, Newman Catholic HS

Discussion: *Aaron Mark* chaired the student-led discussion.

Interactive student conservations:
- Paris Discussion – Authorities identified that communication occurred over typical unencrypted SMS. Recent articles discuss how people are encrypting their messages for privacy. **How do you feel about encrypting for privacy?**
    - If messages are going through the Internet you risk that someone is going to see it. People should expect that someone is going to read their messages.
    - Part of the argument is about encrypting vs. non-encrypting data over the Internet.
    - Apple and Google have started to fully encrypt phones.
        - It sounds like Google isn't trying to steal your data, but they are using more of a sorting algorism to troll the web looking at forms/unencrypted messages. If you send an unencrypted message, then you should expect that someone will read the information.
- French government is considering banning Tor (Internet browser) and public Wi-Fi. **What does everyone think of public Wi-Fi?**
    - Public Wi-Fi is no better than home Wi-Fi. If you don't know how to setup your security, you won't see a difference. Any information can be leaked anywhere, it just depends on what type of security you have.
    - A community in Iowa is working on getting free Wi-Fi throughout the city. **What are your thoughts about a whole city-wide Wi-Fi network for school work?**
        - Good if a student doesn't have Wi-Fi at home. But if students have broadband at home, they probably won't use public WI-Fi. For people that can't afford the Internet, it would be a great addition.
        - Most helpful at parks or restaurants that don't have Wi-Fi.
        - It creates more controversy. A lot of people already say that there is Wi-Fi everywhere you go.
        - Isn't it already everywhere on your cell phone?
        - Wi-Fi is the future. People need to prepare and adapt.
            - But the argument would be that everyone has the right to Wi-Fi. Then you can't deny someone a Wi-Fi connection.
        - Wi-Fi will come to a point where it is like a bathroom; everyone is expected to have it. If a business doesn't, people will look at that business poorly.
            - At Starbucks people have to purchase an item to use the Wi-Fi.
    - Wi-Fi in buses – good idea or not?
        - Opposition – Majority of students that are younger ride the bus, and may not have much homework that requires accessing the Internet.

SYBAC will meet monthly between October – May   https://icn.iowa.gov/benefiting-iowans/sybac

- How often would it be used? Students may not be able to finish their homework on the bus.
- For students that don't have Internet at home, teachers have the students open up files before they leave school, so when they are at home they can read and edit the material.
  - **Should retail companies that are susceptible to data breaches work on keeping consumer information safer?**
    - As the consumer, one is giving up their data, and the company shouldn't have to spend a lot of money to keep it safe.
    - If I buy something online from Target, I am trusting Target to keep my credit card information safe.
    - If a company doesn't take steps to help secure the information, then the consumer isn't purchasing from the store.
    - Can be used as a marketing strategy, 'we have the most secure service'.
    - **Is it possible to keep your data 100% safe?**
      - 100% safe, probably not.
      - As consumers, we can take additional steps to keep our data safe.
  - **What are your ideas on virtual money?**
    - Difference between e-wallet (Paypal) and e-currency (BitCoin)
  - Cyber Security – The human factor element is important in security.
    - Pen Test (penetration test) is a proactive and authorized attempt to evaluate the security of an IT infrastructure by safely attempting to exploit system vulnerabilities.
  - **Li-Fi (Li**ght **Fi**delity**)** - an alternative to Wi-Fi in some circumstances that use light as the transmission medium, and are supposedly capable of 1 Gbps speeds. http://www.mobileindustryreview.com/2015/12/lifi-light-based-communication.html
    - Li-Fi uses light as the physical transport. At some point it would still be Ethernet: either Ethernet over copper, Ethernet over fiber, Ethernet over wireless.

Next meeting *Hunter Werner* will lead the discussion.